

4.00 credits

30.0 h + 15.0 h

Q2

Teacher(s)	Wittevrongel Bernard ;
Language :	French
Place of the course	Tournai
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	<p><b>In Brussels</b>, the teaching is cumulative and progressive, from the shell to the finishing details, while <b>in Tournai</b> construction and materials are taught in a global way; in this way, students can form logical groupings.</p> <p>This teaching unit describes the construction methods and assembly of complex walls which must respond to multiple requirements (structural, constructional, thermal, functional etc.). It links different technical disciplines and shows a range of different response to specific situations in architecture.</p>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>The objective of this teaching unit is to generate the necessary skills to bring architectural objectives into line with how to translate them into material terms.</p> <p><b>Specific learning outcomes:</b></p> <p>By the end of the course, students will be able to</p> <ul style="list-style-type: none"> <li>• be familiar with and refer to the physical and construction properties of the main materials and elements of construction.</li> <li>• be familiar with and refer to a wide range of elements of construction.</li> <li>• produce a budget for technical details combining the different requirements in building, insulation and waterproofing.</li> <li>• make use of technical documentation involved in construction techniques.</li> <li>• develop appropriate building proposals in relation to a simple architectural objective.</li> </ul> <p><b>Contribution to the learning outcomes reference framework:</b></p> <p><b>Use the technical dimension</b></p> <ul style="list-style-type: none"> <li>• Be familiar with and describe the main technical principles of building</li> <li>• Observe and assess the main construction principles of a building</li> <li>• Be able to apply the various basic technical principles in a producing a work of architecture</li> </ul> <p><b>Express an architectural procedure</b></p> <ul style="list-style-type: none"> <li>• Express ideas clearly in oral, graphic and written form</li> </ul>
Bibliography	- Andrea Deplazes, <i>Construire l'architecture</i> , Birkhäuser, 2013, Bâle - Alexander Reichel, Kerstin Schultz, <i>Support / Materialise</i> , Birkhäuser, 2013, Bâle - Bert Bielefeld, <i>Basics building construction</i> , Birkhäuser, 2015, Bâle - Alexander Reichel, Kerstin Schultz, <i>Open/Close</i> , Birkhäuser, 2010
Faculty or entity in charge	LOCI

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Architecture (Tournai)	ARCT1BA	4	LTARC1164	